rricane Frances Composite Model Results

Landfall Expected Within *3* Days

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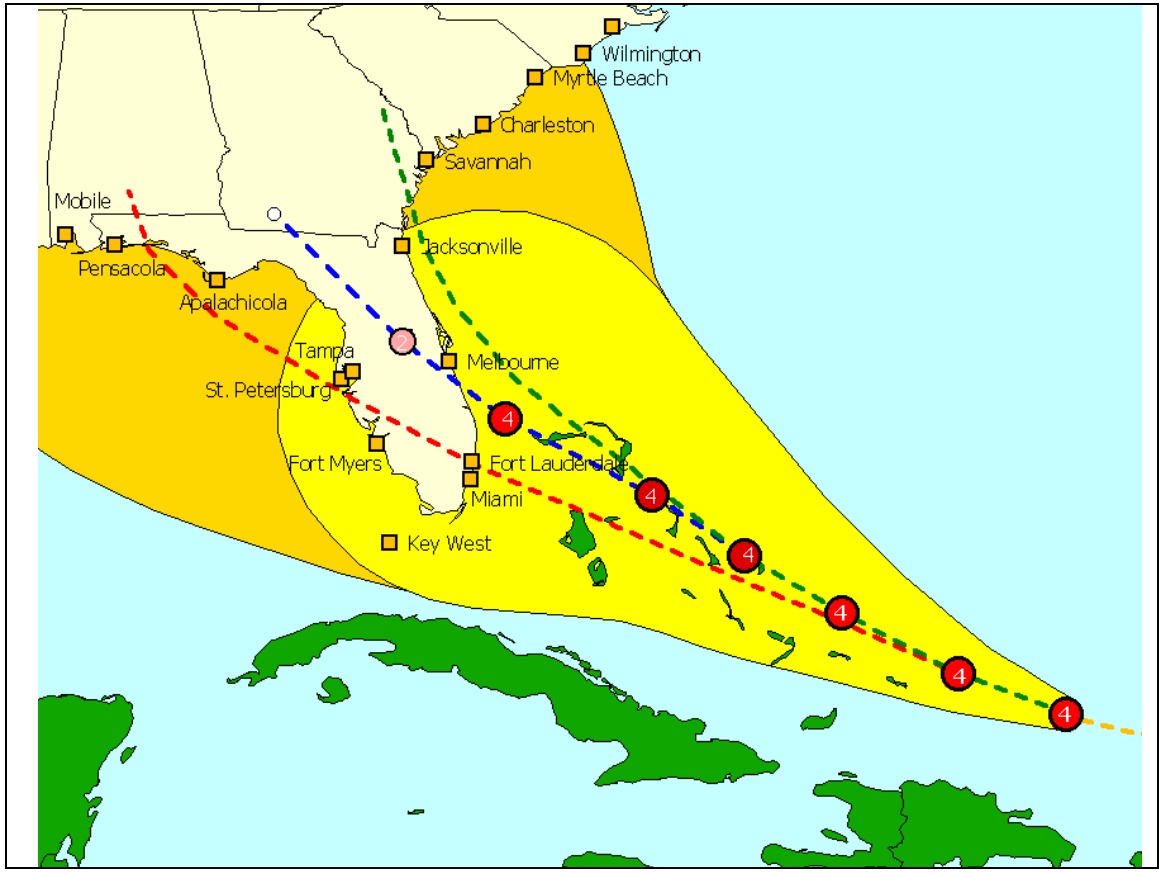

Information provided on the following pages display the most probable hurricane track based on information from the National Hurricane Center (NHC) and **2** alternate scenarios. A change either north or south of the NHC forecast will cause different amounts of damage within the zone of probable landfall. These projections are based on information from the NHC (0500 – 09/01/2004) forecast.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Probable Landfall Zone

Historic Track

Model Tracks

Least Damage Track

Most Damage Track

NHC Forecast Track

Tropical Storm

Category 1 Hurricane

Category 2 Hurricane

Category 3 Hurricane

Category 4 Hurricane

US Army Corps of Engineers

urricane Frances ouseholds Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
0730 EDT
09/01/2004

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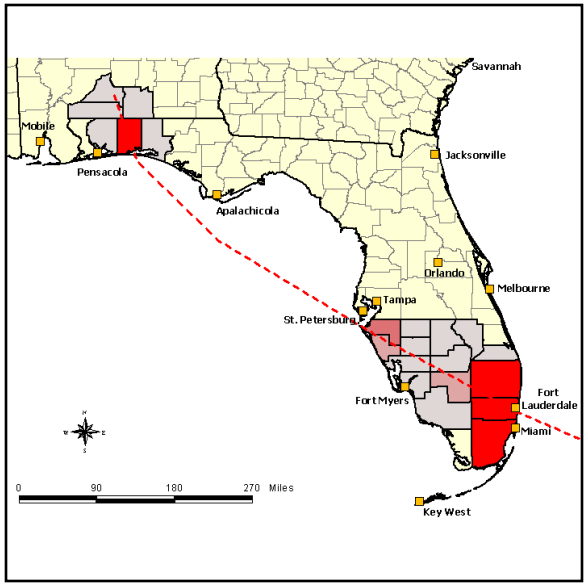
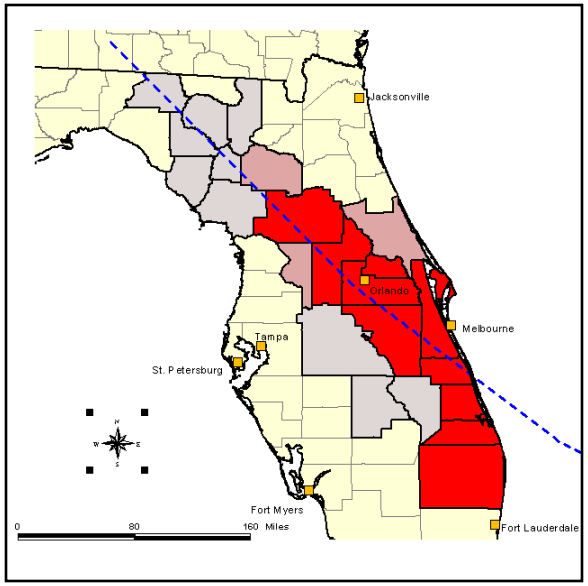
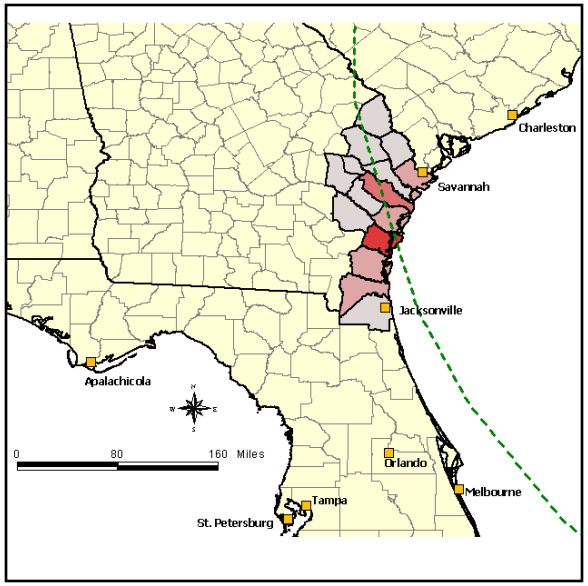
Hurricane Frances Debris Model Results

Landfall Expected Within *3* Days

For Official Use Only!







Maximum Damage Results

Florida – 86,000,000yd³
Alabama - 10,000yd³

NHC Forecast Track Results

Florida – 58,000,000yd³

Minimum Damage Results

Georgia - 2,000,000yd³
Florida – 100,000yd³

The amount of debris forecasted is a possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Model Debris Volumes

- 0 - 99,999 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

US Army Corps of Engineers

rricane Frances Debris Model

Sources:
HURREVAC
LRL-DEBRIS

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0730 EDT
09/01/2004

Hurricane Frances Ice Model Results

Landfall Expected Within *3* Days

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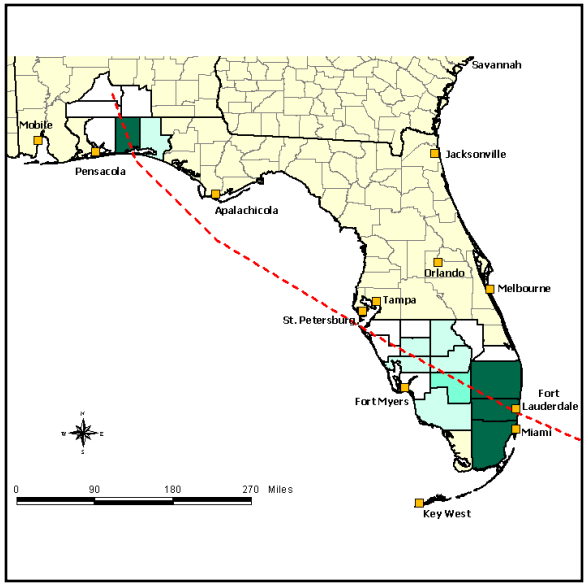

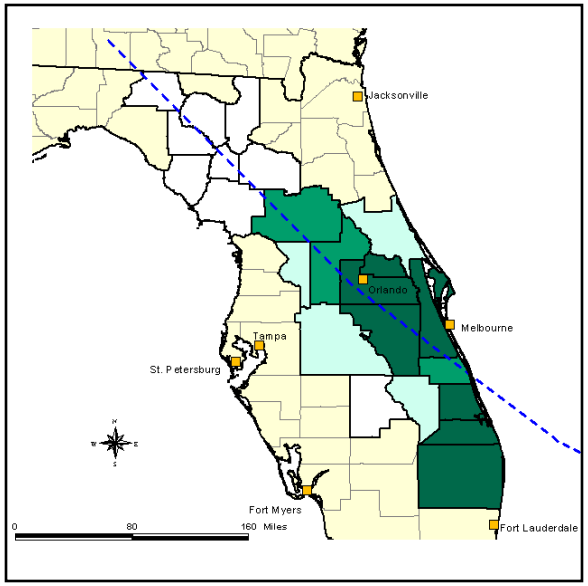

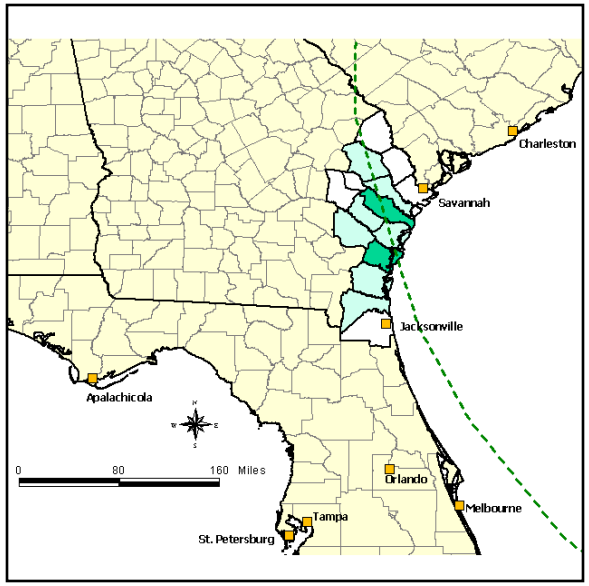

Maximum Damage Results

Florida – 14,000,000 pounds

NHC Forecast Track Results

Florida – 9,000,000 pounds

Minimum Damage Results

Georgia – 400,000 pounds
Florida – 10,000 pounds

The amount of ice forecasted is based on Mission Guide Book requirements and Ice SME input and represents a **first day daily need**. The assumption in this scenario is that 60 % of the resident population in the Cat 3 or greater wind area will require ice assistance and 30% of those in Cat 1 or 2 wind area will require ice after landfall.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Model Ice Volumes

- 0
- 1 - 99,999 pounds
- 100,000 - 249,999 pounds
- 250,000 - 499,999 pounds
- 500,000 - 999,999 pounds
- >1,000,000 pounds

US Army Corps of Engineers

Hurricane Frances Ice Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
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Generated Date:
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09/01/2004

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Hurricane Frances Water Model Results

Landfall Expected Within *3* Days

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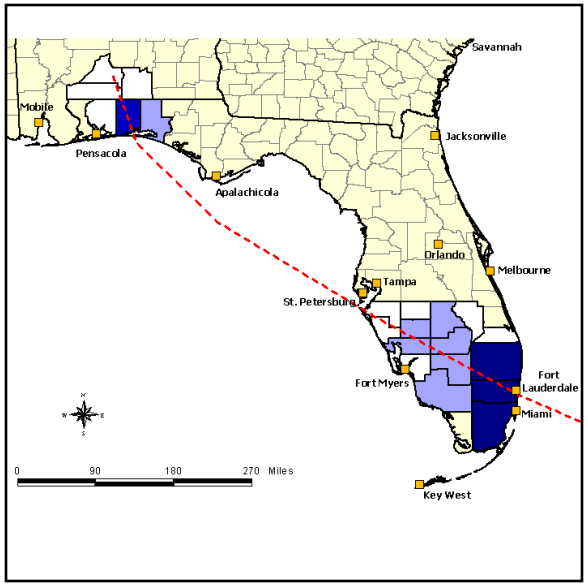

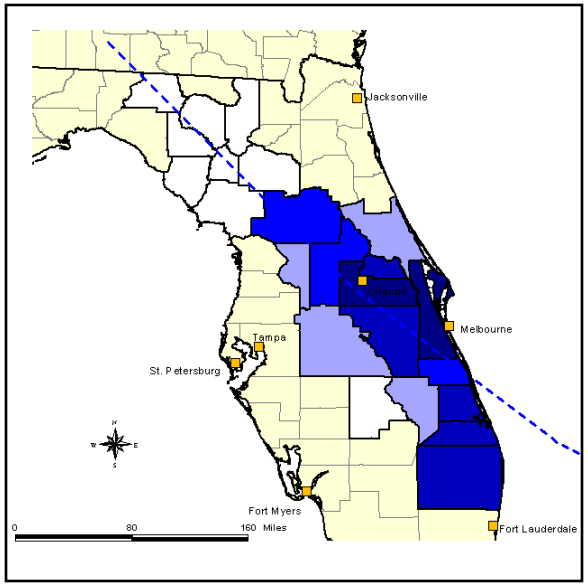

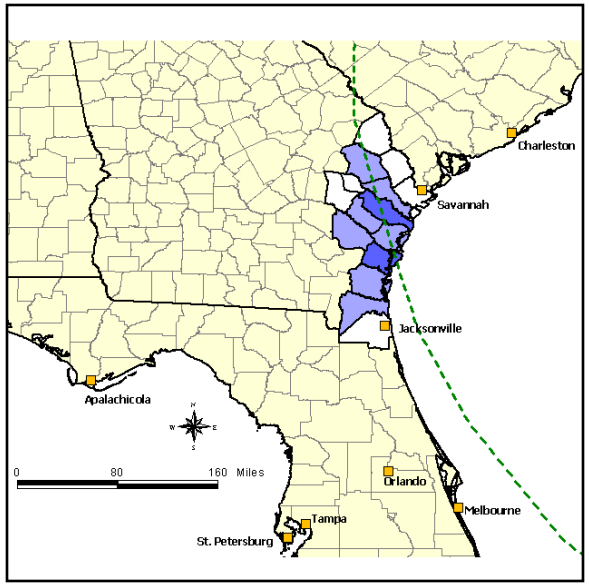

Maximum Damage Results

Florida – 8,500,000 Liters

NHC Forecast Track Results

Florida – 4,600,000 Liters

Minimum Damage Results

Georgia – 200,000 Liters
Florida – 13,000 Liters

The amount of water forecasted is based on Mission Guide Book requirements (four liters per day) and Water SME input and represents a **first day daily need**. The assumption in this scenario is that 60% of the resident population in the Cat 3 wind area will require water assistance 30% of those in Cat 1or 2 wind areas will require water after landfall.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Model Water Volumes

- 0
- 1 - 99,999 liters
- 100,000 - 249,999 liters
- 250,000 - 499,999 liters
- 500,000 - 999,999 liters
- >1,000,000 liters

US Army Corps of Engineers

Hurricane Frances Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
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09/01/2004

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Hurricane Frances Households Model Results

Landfall Expected Within *3* Days

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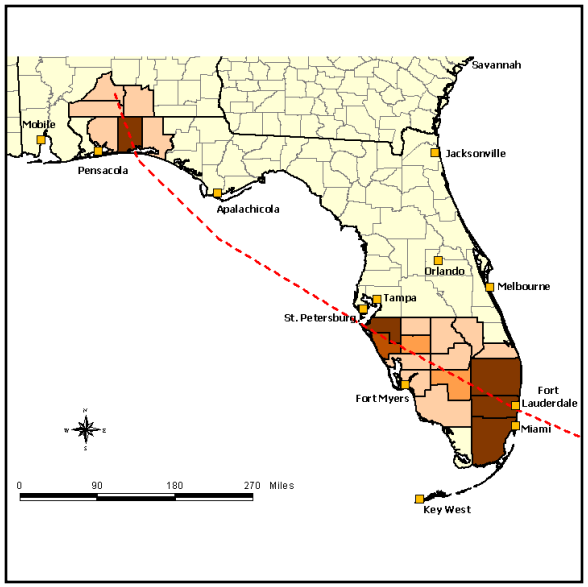

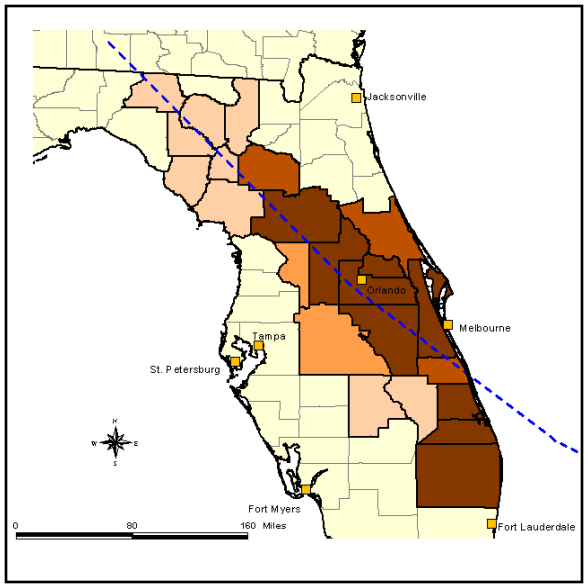

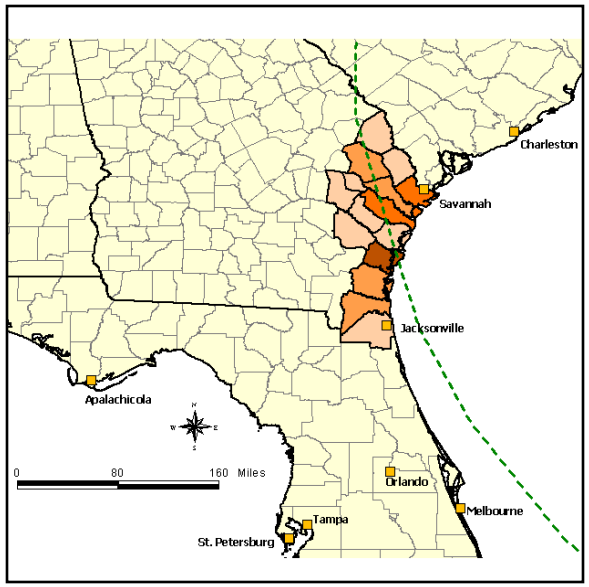

Maximum Damage Results

Florida – 1,900,000
Alabama – 3,000

NHC Forecast Track Results

Florida – 1,360,000

Minimum Damage Results

Georgia – 110,000
Florida – 13,000

The number of households forecasted is based on the households (2000 Census) that are included in an area estimated to receive hurricane force winds.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Model Households Estimates

- 0
- 1 - 7,499
- 7,500 - 14,999
- 15,000 - 24,999
- 25,000 - 49,999
- > 50,000

US Army Corps of Engineers

Hurricane Frances Households Model

Sources:
HURREVAC
LRL-DEBRIS

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09/01/2004

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Hurricane Frances Population Model Results

Landfall Expected Within *3* Days

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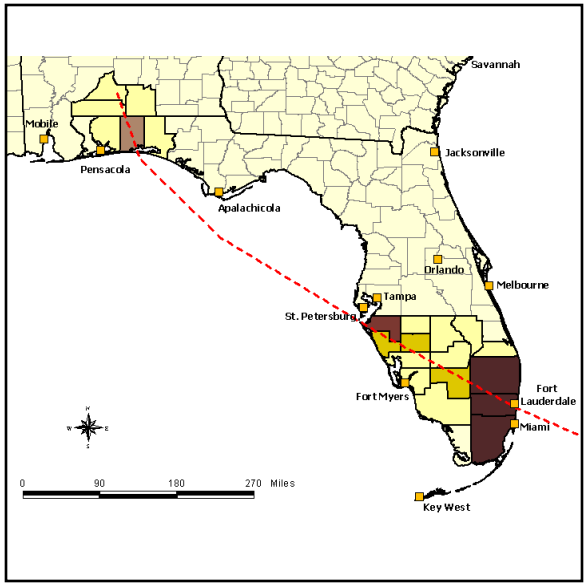

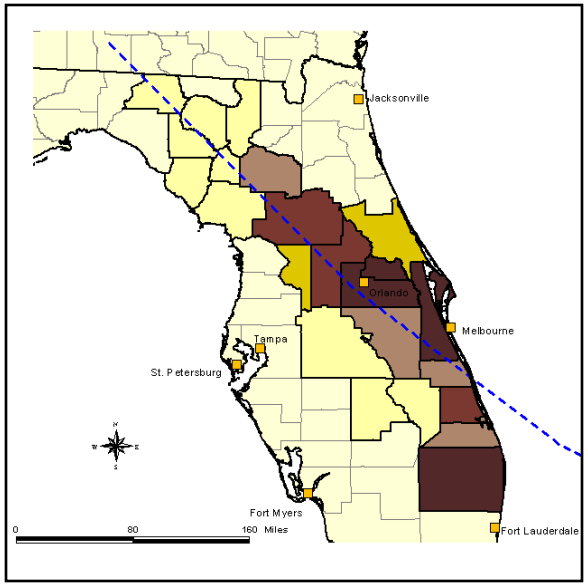

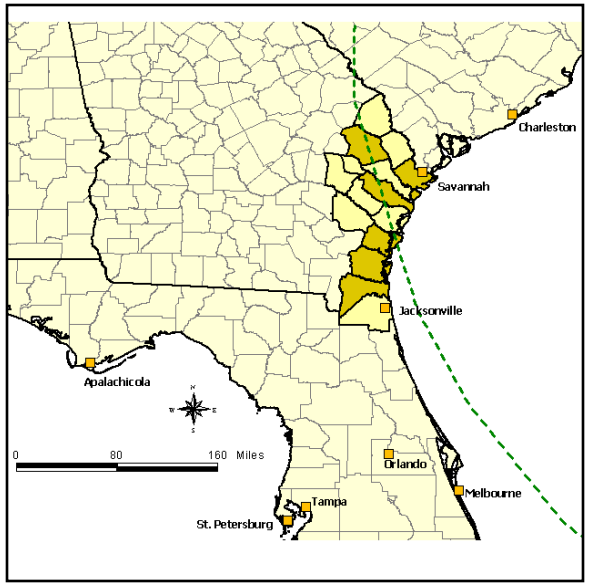

Maximum Damage Results

Florida – 1,100,000 persons
Alabama – 90,000 persons

NHC Forecast Track Results

Florida – 3,400,000 persons

Minimum Damage Results

Georgia – 300,000 persons
Florida – 30,000 persons

The population forecasted is based on the number of persons (2000 Census) that are included in an area estimated to receive hurricane force winds.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Model Population Estimates

	0
	1 - 24,999
	25,000 - 99,999
	100,000 - 174,999
	175,000 - 249,999
	> 250,000

US Army Corps of Engineers

Hurricane Frances Population Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
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